

Самолет, г.

Helicopter. Moskva, 1949.  
Microfilm copy made in 1962 by L. G. Negative.  
Collation of the original: 3-1. illus.  
Title tr.: the helicopter.

Microfilm 3-2  
(Cyrillic text)

CC: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1951.

~~BARSHEVSKIY, Vladimir Borisovich; POZDNYCHEV, A.V., redaktor; ZHURAVLEV,~~  
~~A.S., tekhnicheskiy redaktor~~

[The helicopter in flight] Vertolet v polete. Moskva, Izd-vo Dosaaf,  
1954. 85 p. (MIRA 8:4)  
(Helicopters)

85316

10.9320

S/084/60/000/008/001/000  
A104/A029

AUTHOR Barshevskiy, V

TITLE Helicopter Rotor Flutter

PERIODICAL: Grazhdanskaya Aviatsiya, 1960 <sup>Vol 17</sup> No. 8, pp. 29 - 31

TEXT: The author discusses various causes and ways of prevention of helicopter rotor flutter, which occurs at supercritical speed and is accompanied by a fast increase of oscillation amplitude. Flutter signal begins when a certain number of revolutions  $M$  relative to speed  $V$  is reached. The dependence of the critical revolutions on speed and the flutter limit and the influence of lateral balancing are pointed out. Further factors are the load setting and fly wheel motion. "Critical revolutions" means a coordination of propeller revolutions and flying speed which cause flutter signal. Temperature variations influence the viscosity of the hub lubricant, this alters friction and consequently also the critical revolutions of beginning flutter. A change of lubricant can have the same effect. A considerable increase of critical revolutions at low temperatures was noticed i.e. approximately by 15 rpm per each 1°C. Rigid controls, absence of backlash, proper load distribution, etc., can prevent flutter or at least increase the

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05310

Helicopter Rotor Flutter

S/084/60/000/008/004/005  
A104/A029

number of its critical revolutions. A rotor is considered serviceable if it has adequate flutter reserve and its determination was the object of tests briefly described in this article. As air tests are not always practicable a further purpose was the establishment of a reliable ground test method. Eventually such a method was developed and helicopter flutter tests are now performed in the plant and all unsuitable rotors are immediately discarded. There are 6 figures.

Card 2/2

RUBENCHIK, L.I.; BARSHOVA, O.I.; ZINOV'YEVA, Kh.G.

Interrelations between Azotobacter and some soil bacteria. Report  
no.1. Mikrobiol.zhur. 9 no.4:3-10 '48. (MIRA 9:9)

1. Iz otdela pochvennykh mikroorganizmov (zav. otdelom - L.I.Rubenchik)  
Instituta mikrobiologii imeni akademika D.K.Zabolotnogo Akademii nauk  
USSR.

(AZOTOBACTER) (SOILS--BACTERIOLOGY)

BARSHTAK, N.M.; BYKOVA, Z.Ya.; KLUGMAN, I.Yu.; KNYAZHITSKIY, I.I.;  
RASHKOVICH, M.P.

Induction dividing mechanisms. Stan. i instr. 27 no.11:7-8 N '56.  
(Dividing engine) (MLRA 10:1)

SOV/115-58-1-6/50

AUTHORS: Barshtak, N.M., Bykova, M.Ya., Klugman, I.Ya., Knyazhitskiy, I.I., and Rashkovich, M.P.

TITLE: An Integral Method of Dividing Circles (Integral'nyy metod deleniya okruzhnosti)

PERIODICAL: Izmeritel'naya Tekhnika, 1958, Nr 1, pp 16 - 17 (USSR)

ABSTRACT: The article describes a method and mechanism for precise graduating. The mechanism is actuated by electric inductance. It consists of a toothed fixed core and a toothed rotating ring (Fig. 2), each core tooth carrying an inductance coil. All coils are connected between themselves and into a phase-sensitive circuit (Fig. 3). The inductance of the indicator changes with the changing gap between the teeth on the core and on the ring when the ring rotates. The auxiliary inductance automatically returns the circuit indicator back to zero position. The mechanism is called "integral" because the inductance of the indicator equals the summary inductance of the coils. As the parts of the mechanism operate without contact, they require no precision machining. The method has been tested on a experimental "integral" device for dividing a circle into 360 parts. Even with this

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An Integral Method of Dividing Circles

SOV/115-58-1-6/50

experimental device which was rather inaccurately-made and had a pitch error of about 4 min, the reading error was 60 times smaller, than the mechanical production error of the parts of the measuring device. The inductance mechanism is simple and can be produced on gear shapers. There are 3 diagrams.

1. Machine tools---Design
2. Machine tools---Performance
3. Machine tools---Test results

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S/121/61/000/009/003/006  
D040/D113

AUTHORS: Barshchak, N. M., and Shikhel'man, Kh. L.

TITLE: Production of precision machine tools at the Odessa im. S. M. Kirov Plant

PERIODICAL: Stanki i instrument, no. 9, 1961, 27-30

TEXT: General information is given on new design features of machine tools produced by the Odesskiy zavod im. S. M. Kirova (Odessa Plant imeni S. M. Kirov), and several machines are described. A universal 675-machine produced since 1959-1960 is designed for milling, drilling, boring and slotting. It is said to be free of the deficiencies of the former 678 M (678M)-machine. Its horizontal spindle is mounted in precision bearings the table feed control mechanism is in the slide, the table is mounted on knife-edge ways; the spindle is made reversible and permits the use of right and left hand mills and drills. It has 16 spindle speeds and 16 feeds. The speed and feed selection mechanisms were previously described (Ref. 1: Moldavskiy, M. Kh., "Stanki i instrument" no. 11, 1959). Technical specification of the 675 and 676 models is given. The 676 has larger dimensions. Inductive

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Production of precision machine tools ...

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DO:0/D113

adjustment systems for co-ordinate jig borers and other machines are improved, the maximum adjustment error being 0.003 mm. Detailed description is given of an "armored pickup" (Fig. 1), a precision induction pickup consisting of two halves ( $\Delta_1$  and  $\Delta_2$ ) on a threaded armature (3) and two pole ends connected with a yoke and provided with an internal thread. The pickup moves along the armature-screw together with the machine table without contacting the screw. Each pickup half is magnetized by coils (1) on the pole ends. The coils are connected in series, and magnetic flux of both is directed to one side. The relative position of the pickup-halves and the screw determines their inductive resistance, which is recorded by electric measuring instruments. The gap of maximum 0.3 mm between the armature-screw and the pickup reduces the effect of the screw vibration on measurements to a minimum; the 0.001-mm-displacement of the pickup produces a 1.5 mm indicator hand turn on the microammeter dial. The pickup design is being further improved. Several new program-controlled machines have been completed. Simplification of the programmer system includes electric inductive and analog systems without quick-action computing elements. An  $O\phi-46$  (OF-46) program-controlled co-ordinate jig borer will have an analog programming system including a punched tape and a set of switches. Still produced machine

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Production of precision machine tools ...

S/121/61/000/009/003/006  
D040/D113

tools of old design are being automated and fitted with programming systems. A new contactless bore diameter measuring system is used in the honing process (Ref. 2: Zbarskiy, Yu. Sh., and Krasnyanskiy, A. S., "Stanki i instrument", no. 7, 1961). Its simple principle is based on an accurate repetition of the diameter by the abrasive honing blocks being thrust to the bore surface at constant pressure. This device has passed tests and is now used on new  $\phi$ -38 (OF-38) and  $\phi$ -42 (OF-42) automatic honing machines. The high-productive OF-42 can be used in transfer lines. Ultrasonic cleaning from abrasive dust is employed for parts of high-precision machine tool parts finished by lapping. The plant's laboratory jointly with ENIMS has found an unidentified special oil for the ways that ensures slow motion of machine elements without jerks. The oil is currently being produced at domestic production center. Semiconductor thermistors are used in new machines to reduce machining inaccuracies caused by thermal expansion of machine elements. There are 7 figures and 2 references.

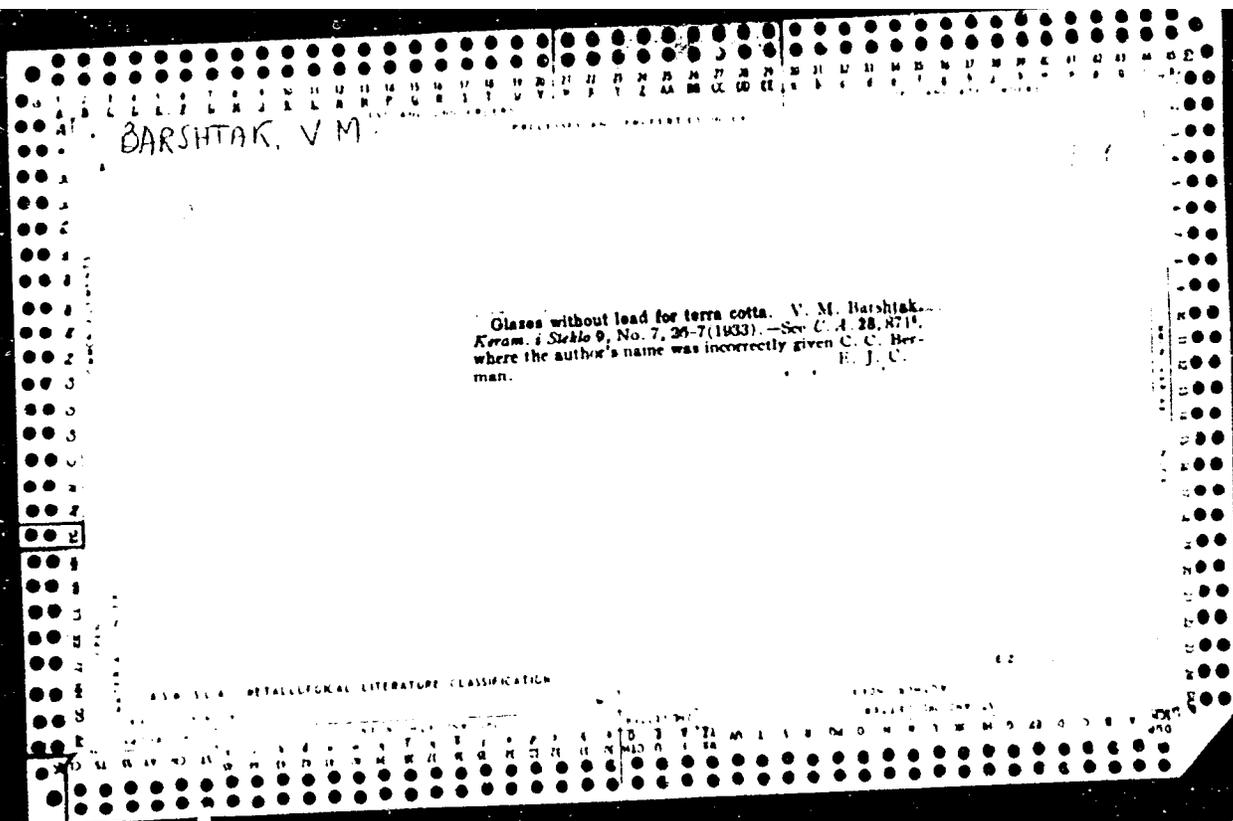
Card 3/4

BARSHTAK, N.M.; SHIKHELMAN, Kh.L.

Design of high-precision machine tools at the Odessa Machine-  
Tool Plant. Stan.i instr. 32 no.9:27-30 S '61.

(MIRA 14:8)

(Odessa--Machine-tool industry)



GOL'VERK, P.G.; BARSHTAK, Ye.M.

Rodless welding of vinyl plastics. Khim.prom. no.8:483-484 D '55.  
(MLRA 9:5)

(Plastics--Welding)

112-2-3653

Translation from: Referativnyy Zhurnal, Elektrotehnika, 1957,  
Nr 2, p. 165 (USSR)

AUTHOR: Anbinder, A. D., Barshteyn, I. I.

TITLE: Electro-vibratory Building-up Metal  
(Elektrovibratsionnaya naplavka metalla)

PERIODICAL: Tekhnol. transp. mashinostroyeniya, 1955, Nr 3, pp. 38-41

ABSTRACT: The essentials of a method based on Engineer Klekovkin's method for the electro-vibratory build-up in an electrolyte stream are explained. The results of research on the structure and hardness of the built-up layers are given. Contrary to Klekovkin's recommendations, the conclusion is drawn that it is impractical to use a rotating wire during welding. This is confirmed by a comparison of the research data on the resistance to shearing stress of layers built up with the aid of a rotating wire, and without it. The following operating conditions are recommended: support feed equal to 0.6 to 0.8 of the wire diameter; when building up steel, a.c. and d.c. current of 9 to 11 volts, and of 7 to 9 volts

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112-2-3653

Electro-vibratory Building-up Metal (Cont.)

for cast iron; 120 to 300 amperes are required. A report on experience in applying the method at the Kirov Plant at Chelyabinsk is made. Examples of the technical and economic results realized by using this method in repair and maintenance work at the plant are given.

A.I.K.

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LIST AND TWO ORDERS

PROCESSES AND PROPERTIES INDEX

F BARSTEYN, I. K.

M

1179. DEVELOPMENT OF COMBUSTION CHAMBERS. Barstein, I. K. and Pollak, M. I. (Kotloturbostroyeniye (Boiler and Turbine Design), 1947, (5), 18-25).

ASME-51A METALLURGICAL LITERATURE CLASSIFICATION

NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW	CX	CY	CZ	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS	DT	DU	DV	DW	DX	DY	DZ	EA	EB	EC	ED	EE	EF	EG	EH	EI	EJ	EK	EL	EM	EN	EO	EP	EQ	ER	ES	ET	EU	EV	EW	EX	EY	EZ	FA	FB	FC	FD	FE	FF	FG	FH	FI	FJ	FK	FL	FM	FN	FO	FP	FQ	FR	FS	FT	FU	FV	FW	FX	FY	FZ	GA	GB	GC	GD	GE	GF	GG	GH	GI	GJ	GK	GL	GM	GN	GO	GP	GQ	GR	GS	GT	GU	GV	GW	GX	GY	GZ	HA	HB	HC	HD	HE	HF	HG	HH	HI	HJ	HK	HL	HM	HN	HO	HP	HQ	HR	HS	HT	HU	HV	HW	HX	HY	HZ	IA	IB	IC	ID	IE	IF	IG	IH	II	IJ	IK	IL	IM	IN	IO	IP	IQ	IR	IS	IT	IU	IV	IW	IX	IY	IZ	JA	JB	JC	JD	JE	JF	JG	JH	JI	JJ	JK	JL	JM	JN	JO	JP	JQ	JR	JS	JT	JU	JV	JW	JX	JY	JZ	KA	KB	KC	KD	KE	KF	KG	KH	KI	KJ	KK	KL	KM	KN	KO	KP	KQ	KR	KS	KT	KU	KV	KW	KX	KY	KZ	LA	LB	LC	LD	LE	LF	LG	LH	LI	LJ	LK	LM	LN	LO	LP	LQ	LR	LS	LT	LU	LV	LW	LX	LY	LZ	MA	MB	MC	MD	ME	MF	MG	MH	MI	MJ	MK	ML	MM	MN	MO	MP	MQ	MR	MS	MT	MU	MV	MW	MX	MY	MZ	NA	NB	NC	ND	NE	NF	NG	NH	NI	NJ	NK	NL	NM	NN	NO	NP	NQ	NR	NS	NT	NU	NV	NW	NX	NY	NZ	OA	OB	OC	OD	OE	OF	OG	OH	OI	OJ	OK	OL	OM	ON	OO	OP	OQ	OR	OS	OT	OU	OV	OW	OX	OY	OZ	PA	PB	PC	PD	PE	PF	PG	PH	PI	PJ	PK	PL	PM	PN	PO	PP	PQ	PR	PS	PT	PU	PV	PW	PX	PY	PZ	QA	QB	QC	QD	QE	QF	QG	QH	QI	QJ	QK	QL	QM	QN	QO	QP	QQ	QR	QS	QT	QU	QV	QW	QX	QY	QZ	RA	RB	RC	RD	RE	RF	RG	RH	RI	RJ	RK	RL	RM	RN	RO	RP	RQ	RR	RS	RT	RU	RV	RW	RX	RY	RZ	SA	SB	SC	SD	SE	SF	SG	SH	SI	SJ	SK	SL	SM	SN	SO	SP	SQ	SR	SS	ST	SU	SV	SW	SX	SY	SZ	TA	TB	TC	TD	TE	TF	TG	TH	TI	TJ	TK	TL	TM	TN	TO	TP	TQ	TR	TS	TT	TU	TV	TW	TX	TY	TZ	UA	UB	UC	UD	UE	UF	UG	UH	UI	UJ	UK	UL	UM	UN	UO	UP	UQ	UR	US	UT	UU	UV	UW	UX	UY	UZ	VA	VB	VC	VD	VE	VF	VG	VH	VI	VJ	VK	VL	VM	VN	VO	VP	VQ	VR	VS	VT	VU	VV	VW	VX	VY	VZ	WA	WB	WC	WD	WE	WF	WG	WH	WI	WJ	WK	WL	WM	WN	WO	WP	WQ	WR	WS	WT	WU	WV	WW	WX	WY	WZ	XA	XB	XC	XD	XE	XF	XG	XH	XI	XJ	XK	XL	XM	XN	XO	XP	XQ	XR	XS	XT	XU	XV	XW	XX	XY	XZ	YA	YB	YC	YD	YE	YF	YG	YH	YI	YJ	YK	YL	YM	YN	YO	YP	YQ	YR	YS	YT	YU	YV	YW	YX	YZ	ZA	ZB	ZC	ZD	ZE	ZF	ZG	ZH	ZI	ZJ	ZK	ZL	ZM	ZN	ZO	ZP	ZQ	ZR	ZS	ZT	ZU	ZV	ZW	ZX	ZY	ZZ
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BARSHTEYN, I. K.

PA 37/49T30

USSR/Engineering

Boilers

Coal, Pulverized

Sep/Oct 48

"Pulverized Burning High-Moisture Fuels," I. K. Barshteyn, Cand Tech Sci, Gen Sci Res Boiler and Turbine Inst Izvest I. I. Polzunov, 7 pp

"Kotloturbostroy" No 5

Analyzes effect of moisture in fuel upon the combustion process and heat transmission on radiation and convection heating surfaces of boiler installations. Demonstrates feasibility of changing over to open systems of pulverized coal preparation when burning

37/49T30

USSR/Engineering (Contd)

Sep/Oct 48

moist pulverized fuel in large boilers. Discusses open system with ball mills in detail, with fifteen sketches.

37/49T30



KANAYEV, A.A., kandidat tekhnicheskikh nauk, redaktor; BARSHTEIN,  
I.K., kandidat tekhnicheskikh nauk, nauchny redaktor; YEFREOV,  
P.I., zavednyushchiy redaktsiyey, inzhener; DLUGOKARSKAYA,  
Ye.A., tekhnicheskiiy redaktor.

Computation and design standards for coal pulverizing machinery.  
[Trudy] TekhNI 24:3-275 '52. (MLBA 8:2)  
(Coal, Pulverized)

SHERSHNEV, A.A., laureat Stalinskoy premii, kandidat tekhnicheskikh nauk;  
POMERANTSEV, V.V., kandidat tekhnicheskikh nauk, retsenzent; BARSHTEYN,  
I.K., kandidat tekhnicheskikh nauk, redaktor.

[Pneumatic furnaces for low-capacity boilers] Pnevmaticheskie topki  
TsKTI sistemy Shershneva dlia kotlov maloi moshchnosti. Moskva, Gos.  
nauchno-tekhn. izd-vo mashinostroit. i sudostroit. lit-ry, 1954. 101 p.  
(MLRA 7:6)

(Furnaces)

KAZARNOVSKIY, Ya.M.; BARSHTEYN, I.K.; redaktor; ZABRODINA, A.A., tekhnicheskiiy redaktor.

[Regulation of superheated steam in high pressure steam boilers]  
Regulirovaniya temperatury peregretoyo para v moshchnykh parovykh kotlakh. Izd. 2., perer. i dop. Moskva, Gos. energ. izd-vo, 1954.  
153 p. (MIRA 7:8)  
(Steam boilers) (Steam, Superheated)

BARSHTEYN, I.K.

V 2427. COMBUSTION OF (PULVERIZED) UKRAINIAN BROWN COALS IN THE TEST  
OPEN SYSTEM. Barshtein, I.K., Kandy, P.N. and Burgvits, G.A. (Moscow) (2)

Mashiz, 1954, "Furnace Installations (Topochrye Ustroistva)", Ed. A.A. Kanaev, TsKTI book 26, 256pp., 3-33). The system is described with diagrams and drawings and successful trials in power station boilers are recorded for fuel containing up to 40% moisture. The fuel is dried by direct contact with flue gases in the pulverizer, then separated from them, stored in a bunker and fed to the burners with heated air. (P2427/02).

BARSHTEYN, I.K.

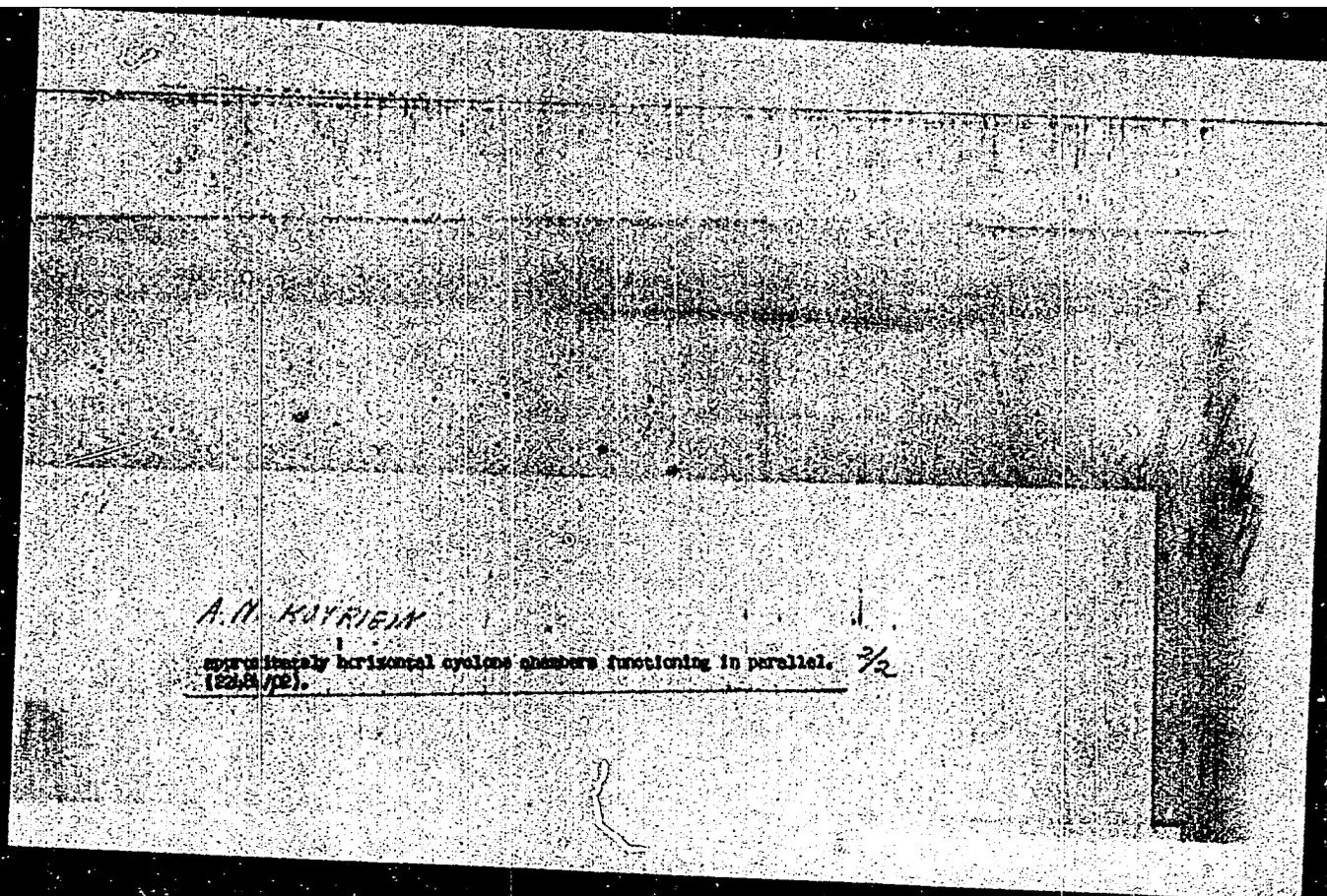
V 2119. SOME NEW TEST DATA ON SHAFT PULVERIZERS. Barshtein, I.K.  
(Moscow: Mashin, 1954, "Furnace Installations (Topchnyya Ustroystva),"  
Ed. A.A. Kaznov, TsKTI book 26, 256pp., 162-188). Data are given on the  
FU Soviet 730/1660/2004 hammer mill with shaft over, with a rotor 2004 mm in  
diameter by 1660 mm long running at 730 rev/min, including the effects of  
wear, speed variations etc. It is satisfactory for Moscow Region brown  
coal but uneconomical for milled pent. (B2484/02).

BARSHTEYN, I.K.

2421. INITIAL TESTS AND INVESTIGATION OF TAKTI-LENENGO CYCLONE FURNACE DESIGNED BY A.A. BARSHTEYN, Barshtein, I.K., Kovrigin, A.M. and Men'shchikov, V.P. (Doklady Akad. Nauk, 1954, Furnace Installations (Teplooborotnye Ustroystva), Ed. A.A. Barshv, TskTI book 26, 256pp., 24-77). A full account is given of experimental work which started in December 1950 in a Leningrad power station. Two cyclone chambers, connected in series by a spiral passage, were fitted approximately horizontally outside a side wall of the increased furnace of a Babcock and Wilcox boiler originally designed for oil or gas firing. The second chamber discharged into the original combustion chamber of the boiler. The two chambers and the connecting passage were formed of water tubes studded with steel fins, covered with chromite refractory and enclosed in a steel shell. The first and second chambers were 2.07 and 2.87 m long and 1.48 m in diameter. The first chamber had four tangential slots for primary air along its length at the top and either a central turbulent burner in the end or a tangential burner in the first primary air slot. Stable combustion was obtained with fine coal up to 5 mm fed with primary air to the central burner or with pulverized coal similarly fed to the tangential burner. The outlet from the first chamber was through a throat in the shape of an inverted facing cone whose internal diameter was 0.967 and 1.267 m in different series of experiments. The chief trouble was melting of the refractory lining of the cyclone chambers owing to the water tubes being spaced too widely. This type of furnace is recommended for new plant and for suitable existing boilers. Drawings are shown of a 230 cross/19 230-F boiler to be installed in 1955 in a Donbass power station, to burn coal preparation refuse in four

(2)

(OVER)



A. M. KAYRIEM

approximately horizontal cyclone chambers functioning in parallel.

(see fig.)

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SYROMYATNIKOV, Valentin Matveyevich; KISELEV, Pavel Levrovich; BARSHTEYN,  
I.K., redaktor; VORONIN, K.P., tekhnicheskii redaktor.

[Steam superheaters of stationary medium and high-pressure steam  
boilers] Paroperegrevateli statsionarnykh parovykh kotlov srednego  
i vysokogo davleniia. Moskva, Gos.energ. izd-vo, 1955. 160 p.  
(Boilers) (Superheaters) (MLRA 9:4)

*BARSHTEYN, I. K.*

Subject : USSR/Engineering AID P - 2552  
Card 1/1 Pub. 110-a - 4/13  
Author : Barshteyn, I. K., Kand. Tech. Sci.  
Title : Improving unit pulverized fuel-fired stokers  
Periodical : Teploenergetika, 6, 18-24, Je 1955  
Abstract : A short review of the development and use of pulverized fuel stokers operating on brown coal, shale and peat is given. An analysis of defects in their design is made. Possible improvements in the design are discussed. Some recommendations for efficient operation are made.  
Institution: Central Turbine-Boiler Institute  
Submitted : No date

AID P - 3334

Subject : USSR/Power Engineering  
Card 1/1 Pub. 26 - 20/28  
Authors : Barshteyn, I. K. and Rubin, M. M., Kand. Tech. Sci.  
Title : Mounting of centrifugal collectors in the superheater of a TP-230-1 boiler  
Periodical : Elek. sta., 8, 49-52, Ag 1955  
Abstract : The authors discuss the decrease in temperature and distribution of steam leaving the superheater and state that a more uniform distribution of steam temperatures is achieved in boilers equipped with turbulent burners. The use of centrifugal collectors is strongly emphasized. Curves show temperature distribution in waterwalls and in the boiler and data on superheater operation. Nine diagrams.  
Institution : None  
Submitted : No date

Subject : USSR/Power Eng. AID P - 4079  
Card 1/1 Pub. 110-a - 4/14  
Authors : Barshteyn, I. K., Kand. Tech. Sci. and V. R. Terenkal',  
Eng. Central Boiler and Turbine Institute  
Title : The 730/1300/2564 centrifugal pulverized coal mill and  
its grinding properties.  
Periodical : Teploenergetika, 12, 22-28, D 1955  
Abstract : The performance of a new type of mill is analyzed in  
detail. The design and operation of this mill are  
explained. Certain advantages such as operational  
speed, low supply of current needed, more efficient  
ventilation system, and the longer wear of parts are  
emphasized.  
Institution : None  
Submitted : No date

BARSHTEYN, I.K., kandidat tekhnicheskikh nauk; RUBIN, M.M., kandidat  
tekhnicheskikh nauk.

Operating characteristics for shaft pulverizer furnace with cyclone  
burners. Energomashinstroenie no.9:1-5 S '56. (MLRA 9:10)

(Furnaces) (Combustion)

BARSHTEYN, I.K., kandidat tekhnicheskikh nauk; HUBIN, M.M., kandidat  
tekhnicheskikh nauk.

Adjustment of shaft-mill furnaces with overfire-air ports. Elek.sta.  
27 no.3:7-12 Mr '56. (MLRA 9:8)

(Boilers)

BARSHTEYN, I. K.

1959. ADJUSTMENT AND STUDY OF TP-230-3 BOILER PLANTS WITH LIQUID SLAG  
BARSHTEYN, I. K. et al. (Kievt. Sts. (For Sts., Moscow), Oct. 1956,  
No. 27, 4-12). An illustrated description, a year's test results, and  
modifications are given for a Soviet boiler designed to produce 230 tons/h of  
steam at 110 atm and 570°C but having the dimensions of an existing type  
producing 170 tons/h. It was designed to burn pulverized middlings from  
coking coal preparation plant, but owing to shortages of gas coals the fuel  
properties varied within the following limits: ash 2.1 to 38.9%, moisture 5.5  
to 10.9%, net calorific value 3,674 to 5,444 cal/g, and volatile matter 22.9 to  
32% (L).

AUTHOR: Barshteyn, I.A., Candidate of Technical Sciences, and 310  
Belinskiy, I.B., Engineer.

TITLE: Experience of burning high moisture content brown coals in  
a boiler installation equipped with pulverising fans. (Opyt  
szhiganiya vysokovlazhnykh ugley v kotel'noy ustanovke  
oborudovannoy melyushchimi ventilyatorami.)

PERIODICAL: "Energomashinostroenie", (Power Machinery Construction),  
1957, No. 5, pp. 10 - 14, (U.S.S.R.)  
Vol. 3

ABSTRACT: This article describes the results of tests on a boiler  
equipped with a pulverised fuel preparation system including  
pulverising fans developed by the Central Boiler and Turbine  
Institute. The equipment is in the KRES Power Station (Kiev  
Regional Power Station?). Boiler No. 4 of the KRES station  
manufactured by the "Rota" Company was reconstructed and has  
a designed steam output of 40 tons per hour with a drum  
pressure of 31 atm and a super-heated steam temperature of  
400 °C. The heating surface of the boiler is 462 m<sup>2</sup>, of the  
super-heater 182 m<sup>2</sup>, of the water economiser 492 m<sup>2</sup> and of the  
air heater 2 240 m<sup>2</sup>. Other furnace data are also given. The  
pulverised fuel preparation system consists of three independ-  
ent dust systems with pulverising fans. Coal from a bunker  
is delivered to drying shafts by drum-scraper feeders. In the  
drying shafts the fuel receives preliminary drying by gases  
drawn from the furnace because of suction set up by the  
pulverising fans, From the drying shafts the gas-fuel flow

experience of burning high moisture content brown coals in a boiler installation equipped with pulverising fans. (Cont.)

passes through the pulverising fans in which the fuel is pulverised and is intensively dried. It then passes to the burners. The pulverising fans have a rotor of 1 050 mm diameter with a blade width of 400 mm and height of 200 mm. The fan is driven at 1 460 r.p.m. by a 115 kW motor.

The main fuel of the power station is Aleksandriysk brown coal produced by opencast working. The coal contains a high proportion of fines and a comparatively small quantity of large pieces and is low mechanical strength. The ash content varies from 22 - 33%, the moisture content from 50 - 56% and the calorific value is 1 500 - 2 000 kcal/kg. The ash is of high temperature characteristic.

Operational observations and tests made during initial setting-up reveal the following special features of operation: Ukrainian brown coals cause difficulties in the fuel supply lines only under winter conditions. When the frost is hard, the coal freezes in the stacks and the upper layer of fuel has to be broken up by hand. There being no crushers the large lumps of frozen fuel are troublesome and delivery of coal to the pulverising fans is uneven. The magnetic metal separator did not operate well so that damage was caused to the pulverising fans. As the blades of the pulverising fans did not last long, and the rotors frequently became unbalanced, the Central Boiler and Turbine Institute has recently re-designed

Experience of burning high moisture content brown coals in a boiler installation equipped with pulverizing fans. (Cont.)

required to move it. Although the scraper-drum feeder generally operated satisfactorily the absence of preliminary crushing of the coal greatly interfered with its normal operation. When pulverizing fans are used the need for crushing should be carefully considered. The gas dampers on the front wall of the furnace did not work well. The short distance between the gas intake apertures (from the furnace to the drying shaft) and the burners, which was about 2.5 m causes the temperature of the tapped-off gases to vary widely depending on the operating conditions of the boiler. A graph is given showing that this temperature can range from about 800 to 1 100 °C. Therefore, the gas intakes should be located in the upper part of the furnace at a sufficient height above the burners. The horizontal gas pipes from the front of the furnace to the drying shafts are constantly clogged with ash and slag and require frequent cleaning. Appropriate arrangements should be made to prevent this.

Balancing tests were carried out when burning normal Aleksandriysk coal and also coal of lower quality with increased ash content and reduced calorific value. During the tests the fuel properties varied within the limits of: water- 48.9 - 56.7%; ash 13.0 - 18%; calorific value 1 390 - 1 629 kcal/kg. The quantity of hot air passed to the drying shafts was 20 - 25% of the total air consumption of

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experience of burning high moisture content brown coals in a boiler installation equipped with pulverizing fans. (Cont.)

the furnace. The tests confirmed the possibility of ensuring reliable and economic combustion of the coal. With the high ash coal the burner flame commenced rather a long way from the embrasure but combustion remained steady. A graph is

given of the thermal losses and efficiency of the boiler as a function of the steam load and it is shown that the efficiency is practically independent of the load. There were large leakages of air into the furnaces, mainly through the fuel feeders because of leaks in the gas ducts from the furnace to the drying shafts near the slag funnels and at places where the screen tubes pass through the lining. With a steam load of 40 t/h the temperature of the outgoing gases is only 135 °C. However, because of the high moisture content of the fuel the heat loss with the outgoing gases was considerable and ranged from 12 - 13%. When burning normal fuel there was no loss of heat because of chemically incomplete combustion but with the low quality coal this loss was from 0.4 - 1.4% even with considerable excess air. A graph is plotted of the electric power consumption related to a ton of steam against boiler output and with an output of 40 t/h it is 8.6 kWh/ton. It is concluded that in addition to giving reliable combustion of Aleksandriysk coal the installation equipped with

Experience of burning high moisture content brown coals <sup>310</sup> in  
a boiler installation equipped with pulverising fans. (Cont.)

the fan construction. The milling parts have been considerably strengthened and made of wear-resistant materials, and protective linings on the milling blades can be replaced without withdrawing the rotor. Operating experience and tests on the boiler under different conditions show that stable combustion of Aleksandriysk brown coal with a moisture content of up to 33% is achieved even in winter conditions and without a crusher. Combustion was stable even at loads of 40 - 50% with only one pulverising fan in operation. During operation it was never necessary to light the fuel oil burners and there were no enforced stoppages because of fuel supply or combustion difficulties. Very little slag was formed in the furnace. Experiments which were carried out confirmed the advisability of supplying hot air to the drying shafts with a somewhat increased oxygen content compared with the furnace gases. It was also found that losses due to incomplete combustion are very dependent on the excess air factor; the results are plotted on a graph.

In new designs account should be taken of the following defects that appeared in various parts of the equipment:  
If the bunkers are filled to more than a third of their capacity the coal is not delivered continuously. The coal shutter of the damper type is inconvenient because great force is

experience of burning high moisture content brown coals<sup>310</sup> in a boiler installation equipped with pulverising fans. (Cont.)

pulverising fans is of comparatively high economy. At rated load, the efficiency of the boiler is 97%. The gross efficiency of the boiler set when burning coal of normal quality at the rated load on the boiler is 82.5% and the nett efficiency with two milling systems working is 77%. The positive results of burning high moisture content brown coal in a furnace equipped with pulverising fans makes it possible to recommend wide application of these installations on small and medium sized boilers. The limiting value of the relative moisture content of coal that can be burnt reliably and with efficient economy in these installations is up to 36%. Work on the improvement of pulverising fans should be continued.

7 figures, no literature references.

BARSHTEYN, I. K.

114-11-3/10

AUTHOR: Barshteyn, I.K., Candidate of Technical Sciences.

TITLE: Achievements and Prospective Developments of Boiler Manufacture in the USSR. (Dostizheniya i perspektivy razvitiya kotlostroyeniya v SSSR)

PERIODICAL: Energomashinostroyeniye, 1957, Vol.3, No.11, pp. 12-15 (USSR)

ABSTRACT: The first part of the article is a general historical review of boiler manufacture in the USSR. The tendency up to 1941 was to improve and reduce the weight of boilers and successive transition from boilers with four drums to three and two drums or even one. An important step was the manufacture at Taganrog of a transportable boiler of three tons per hour output. In 1933, the first direct flow Ramzin type boiler was built with an output of 200 t/h and a pressure of 140 atm.

The war did great damage to the industry. However, boiler manufacture was recommenced even before the end of the war. Besides the Biysk Boiler Works (Biyskiy Kotel'nyy Zavod), which produced low-power boilers, the Podolsk Works (Podol'skiy Zavod) imeni Ordzhonikidze in 1943-1944 mastered the production of drum-type boilers with outputs of 200 t/h and also Ramzin boilers of 230 t/h at 100 atm. and 500 °C. Soon after the war, the Card 1/6 Taganrog Works (TKZ) was restored on a new technical basis and

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Achievements and Prospective Developments of Boiler Manufacture in the USSR.

again became one of the leading Soviet boiler manufacturers. In 1944, the Barnaul Boiler Works (Barnaul'skiy Kotel'nyy Zavod) commenced production.

The period since the war is characterised by the use in Soviet power engineering of high-steam conditions of 100 atm., and 510 °C, and higher medium steam conditions of 40 atm. and 450 °C. The introduction of automatic welding of drums under a layer of flux much simplified the manufacture of high-pressure boilers.

In the first ten years after the war, the number of high-pressure direct flow boilers manufactured in the USSR was only about 5% of all production. However, there is no doubt that more boilers of this design will be built in the future.

Boiler design has been greatly standardised since the war. All kinds of low-grade fuel are successfully burned. However, the standard designs will in some cases need adapting to suit different kinds of fuel. Boiler standardisation has been characterised by the use of a single-type of longitudinal cross-section, the only difference being in the width of the front for different sizes. This policy has facilitated and cheapened the production of many parts of boilers. As a result of design improve-

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ments, boiler efficiencies are now as high as 92%.

Work has been done to improve the quality of steam and so that now even in a heat and electric power station using a considerable proportion of chemically-purified feed water, it is possible to produce steam with a salt content not exceeding 0.05 mg/kg and a silica content not exceeding 0.02 mg/kg.

Rotatable burners have begun to be used in high-pressure boilers but they have not yet been successfully used for automatic control of superheat temperatures. Superheat temperature has been successfully controlled in some high-pressure boilers by means of condensate injection.

The first boilers, type TП-240-1, have been designed and manufactured (see Fig.1). These boilers have an output of 240 t/h with a pressure in the drum of 185 atm. and a steam temperature of 555 °C, with reheat to 525 °C at 32 atm. Two such boilers supply a 150 MW turbine. The boilers operate on high ash Moscow Basin coal which is milled and dried in drum-type ball mills so that intensive air heating is not necessary. A general description of these boilers is given.

In recent years, the Taganrog Works and the Central Boiler Card 3/6 Turbine Institute (TsKTI) have developed boiler set type TП-430

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## Achievements and Prospective Developments of Boiler Manufacture in the USSR.

with a steam output of 430 t/h intended for a steam pressure of 100 atm. at a temperature of 540 °C. A boiler of this type operating as a unit with 100 MW turbine will commence operation this year.

The main steam conditions for most large boiler sets are now 140 atm. at 570 °C with reheat to 570 °C. Boilers type ТП-80 are being designed and manufactured for these conditions. This is a drum-type boiler with a steam output of 420 t/h without reheat, whilst boiler ТП-90 has an output of 540 t/h with reheat. Boiler ТП-100 will have an output of 660 t/h with the same steam conditions.

Boilers ТП-90 and ТП-100 are designed with an original T-shaped arrangement. In this arrangement, the gas is taken away from the furnace at both sides and the super-heaters and tail heating surfaces are arranged in two separate gas ways (see the illustration on p. 18 of the journal). The design and construction of the boilers is described. A direct flow boiler type ПК-33-83-СП is illustrated in Fig.1. It has an output of 660 t/h at a pressure of 140 atm. and a steam temperature of 570 °C super-heat and reheat. The turbine was developed by the Podolsk Works imeni Ordzhonikidze, together with the Moscow Division of the Central

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Boiler Turbine Institute. This boiler is of the usual inverted 'U' arrangement and its construction is described.

Despite the progress that has been made, a number of problems still require solution in connection with the introduction of super-high steam conditions and boiler-turbine units. An important task is to develop the boilers for turbines of 300 and 500-600 MW which are as large as possible, using ferritic steels (240 atm., 580 °C at the turbine) both for super-critical pressure and for the highest possible super-heat temperature, using austenitic steels (at present 315 atm. and 655 °C at the turbine). It is very important to develop new ferritic steels so as to make boilers cheaper and more reliable. It is necessary to increase the output per m<sup>2</sup> of hearth/better design of furnace chambers and burners. These questions are fairly fully-developed for boilers of output up to 660 t/h but require further development for still larger boilers. Improvements are required in the design of super-heaters and the automatic regulation of super-heat temperature is particularly important. Developments in the cheap production of open-cast coal in several parts of the country make it necessary to reconsider the best level of temperature for the outlet gases with due allowance for the need to protect the tail-heating surfaces against

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Achievements and Prospective Developments of Boiler Manufacture in the USSR.

corrosion. Further development of regenerative air heaters is required. Direct-flow boilers must be further developed. There is 1 figure.

AVAILABLE: Library of Congress

Card 6/6

*Operational characteristics of the 1050/400 mill ventilator*  
BARSHEYN, I.K., kand.tekhn.nauk; BELINSKIY, I.Ye., inzh.

Operational characteristics of the 1050/400 mill ventilator  
designed by the Central Scientific Research Institut for  
Boilers and turbines. Energomashinostroenie 3 no.12:16-21  
D '57.

(MIRA 11:1)

(Drying apparatus)

ZIL'BERMAN, David Ionovich; BARSHTEYN, I.K., kand.tekhn.nauk, red.;  
LARIONOV, G.Ye., tekhn.red.

[Increasing the efficiency and reliability of operation of  
furnaces with shaft-type impact mills] Povyshenie ekonomichnosti  
i nadezhnosti raboty shakhtno-mel'nichnykh topok. Moskva, Gos.  
energ.izd-vo, 1958. 158 p. (MIRA 12:2)  
(Furnaces)

BARSHTEYN, I.K., kand. tekhn. nauk

Contest sponsored by the Central Bureau of the Society of the  
Power Engineering Industry for best work in research.  
Toploenergetika 7 no. 12:96 D '60. (MIRA 14:1)  
(Electric power)

DUBOVSKIY, I.Ye., kand.tekhn.nauk; NAZARENKO, V.S., inzh.; MIGAY, V.K.,  
kand.tekhn.nauk; BARSHTEYN, I.K., otv.red.; KHARITONOVA, N.D.,  
tekhn.red.

[Results of investigations of and the method for designing the  
regenerative air heaters of boiler units] Rezul'taty issledovaniya i  
metod raschera regenerativnykh vozdukhopodogrevatelei kotel'nykh  
agregatov. Leningrad, Biuro tekhnicheskoi informatsii, 1961. 28 p.  
(Leningrad. Tsentral'nyi nauchno-issledovatel'skii kotloturbinnyi  
institut. Informatsionnoe pis'mo, no.8-61). (MIRA 16:5)  
(Boilers)

STOLPNER, Yefim Borisovich; ESTERKIN, Rakhmiyel' Iosifovich; BARSHEYN,  
I.K., nauchnyy red.; BUSAKOVA, L.Ya., vedushchiy red.;  
YASHCHURZHINSKAYA, A.B., tekhn.red.

[Adjustment and operation of gas supply systems for boiler  
units] Naladka i ekspluatatsiia sistem gazosnabzheniia kotel'-  
nykh ustanovok. Leningrad, Gos.nauchno-tekhn.izd-vo neft. i  
gorno-toplivnoi lit-ry, 1961. 353 p.

(MIRA 14:12)

(Boilers--Firing)

(Gas as fuel)

BOGOMOLOV, Ivan Pavlovich; BARSUKOV, Ilya Pavlovich;  
DUBINSKIY, M.G., ved. red.; YASHCHENKINSKYAYA, A.M.,  
ved. red.

(Operation of boiler plants with ...  
... regotov na gazoobraz...  
... dat, 1963. 156 p.  
(Boilers—Fuel systems)

BARSHTEYN, M.

Aerodynamic coefficients for certain types of buildings. Stroi.  
mekh. i rasch. soor. 1 no.4:49-50 '59. (MIRA 12:10)  
(Wind pressure) (Strains and stresses)

124-58-9-9796

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 9, p 45 (USSR)

AUTHOR: Barshteyn, M. F.

TITLE: The Dynamic Calculation of Tall Cylindrical Structures (Dinamicheskiy raschet vysotnykh sooruzheniy tsilindricheskoy formy)

PERIODICAL: V sb.: Issled. po dinamike sooruzheniy. Moscow, Gos. izd-vo lit. po str-vu i arkhitekt., 1957, pp 6-43

ABSTRACT: Results are shown of experimental investigations, performed in the TsAGI wind tunnel, on the vibrations of a rigid, elastically supported cylinder and an elastic cylinder exposed to an air flow. It is established that the vibrations of the cylinder occur predominantly in a direction perpendicular to that of the flow and have a frequency close to the natural. A theory is set up for this phenomenon, based on the assumption that at or near the extreme positions of the cylinder the detachment of vortices results in a sudden change in circulation, whereas at all intermediate positions the circulation remains unchanged. In addition thereto it is assumed, in the solution of the problem for the elastic cylinder, that its flexure line coincides with the shape of the basic mode of vibration. The solution of the nonlinear equations of motions determines

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124-58-9-9796

The Dynamic Calculation of Tall Cylindrical Structures

the vibration frequency which, in a first approximation, is found to coincide with the natural, and also the amplitude of the vibrations. Recommendations are expounded relative to the dynamic calculation of tall cylindrical structures, utilizing empirical coefficients obtained as a result of the investigations performed.

M. D. Klyachko

1. Cylinders--Vibration 2. Cylinders--Test results 3. Vibration--Mathematical analysis 4. Fluid flow--Applications

Card 2/2

DARWIN, NSW, N.S.W.

Report presented at the 1st All-Union Congress of Technicians and Applied Scientists, Moscow, 27 Aug - 1 Feb 1955.

1. A. A. Abkhazi, A. G. Berman, I. A. Zhurav (Moscow): Experiments on the strength of elastic solids on the basis of isotropic well-tempered.
2. A. A. Abkhazi, V. K. Medvedev, I. A. Zhurav (Moscow): Test transfer in working viscomer and wire-plastic solids.
3. B. L. Abramson (Kiev): Torsion of cylindrical rods.
4. B. L. Abramson, S. M. Shpil'man (Kiev): Torsion of circular plates under the action of tangential forces.
5. I. A. Akhmedov, M. A. Kozlov, I. A. Zhurav (Moscow): Modeling of the behavior of a rod of solid under dynamic loading.
6. I. A. Akhmedov (Moscow): Some relations between the modulus of shear and compressibility problems in the theory of elasticity.
7. A. M. Aleksandrov (Sverdlovsk): Experimental investigation of plane elastic-plastic problems by means of photoelastic film.
8. V. N. Alekseyev, M. A. Dostoev (Krasnodar): Some contact problems in elasticity.
9. B. A. Alkhasanov, E. Sh. Arslanov, M. F. Mammadov (Kiev): Torsion of prismatic bars under torsional stress.
10. B. A. Alkhasanov (Kiev): Two-dimensional bodies of equal strength.
11. B. A. Alkhasanov (Kiev): Asymmetrical torsion of elastic bodies of equal strength.
12. B. A. Alkhasanov (Kiev): On the theory of isotropic shells and plates.
13. B. A. Alkhasanov, I. A. Novikova (Kiev): Some problems in the theory of isotropic (non-orthotropic) shells.
14. G. A. Amel'man (Kiev): Stability analysis of a stiffened shell under axial compression.
15. B. A. Alkhasanov, M. A. Kozlov, I. A. Zhurav (Moscow): On the stability of a rod under dynamic loading.
16. I. A. Akhmedov (Kiev): The stress distribution in a heavy half-space under a circular load, the case of which is subject to non-equilibrated forces.
17. M. Green, M. Tuzmanova (Krasnodar): Photoelastic model of the contact of a rod and a plate.
18. B. A. Alkhasanov (Kiev): The plane contact problem of the theory of shells.
19. B. A. Alkhasanov, I. A. Novikova, I. A. Zhurav (Kiev): On the stability of a shell under axial compression.
20. B. A. Alkhasanov (Kiev): The general solution of the problem of elastic strains in a cylinder of finite length.
21. B. A. Alkhasanov (Kiev): The theory of equilibrium stress under brittle rupture.
22. G. N. Baryantsev (Moscow): Rheological properties of rubber-like polymers.
23. B. A. Alkhasanov (Kiev): Dynamic design of structures subjected to random effects.
24. B. A. Alkhasanov (Kiev): Temperature distribution in a shell under axial compression.
25. B. A. Alkhasanov (Kiev): On the stability of a shell under axial compression.
26. V. G. Baryantsev (Moscow): The theory of the limit state of stress in soil mechanics and its application.
27. A. M. Aleksandrov, A. P. Vainik (Moscow): The use of algebraic digital computers for solving non-linear problems in the theory of plates and shells.
28. V. G. Baryantsev (Moscow): Stress displacement functions.
29. V. G. Baryantsev (Moscow): Differential equations of the theory of structures.
30. V. G. Baryantsev (Moscow): On solving Bernoulli's contact problem with lateral fields of plasticity.
31. V. G. Baryantsev (Moscow): Method of type transformations in the non-linear theory of plates and shells.
32. V. G. Baryantsev (Moscow): The non-linear problems of stress distribution in a shell.
33. V. G. Baryantsev (Moscow): Strength and damage under action of random forces.
34. V. G. Baryantsev (Moscow): The statistical theory of shells.

BARSHTEYN, M.F. (Moskva)

Effect of wind on high structures. Stroi. mekh. i rasch. soor. no.1:  
19-32 '59. (MIRA 12:7)  
(Wind pressure) (Strains and stresses)

BARSHTEYN, M.F. (Moskva)

Using probability methods in designing structures for earthquake stresses. Stroi. mekh. 1 rasch. soor. 2 no. 2:6-14 '60.

(MIRA 14:5)

(Earthquakes and building)

BARSHTEYN, M. P.

Application of Probability Methods for Design the Effect of Seismic Forces on Engineering Structures."

Report presented at the 2nd World Conference on Earthquake Engineering, Tokyo and Kyoto, Japan, 11-18 July 60.

AUTHOR: Barenteyn, M.P., ) Candidate of Technical Sciences /97-57-11-9/10  
Gusakov, V.N. )

TITLE: Practical Tests on Load-Carrying Constructions for the Games Arena at the Central Stadium imeni V.I. Lenin. (Naturnyye ispytaniya nesushchikh konstruktsiy areny ruchnykh igr Tsentral'nogo stadiona imeni V.I. Lenina).

PERIODICAL: Beton i Zhelezobeton, 1957, Nr 11, pp 465-466.

ABSTRACT: The TsNIPS and the Institute for Building Technique of the Academy of Building and Architecture of USSR carried out statical and dynamic investigations of load-bearing constructions for the above stadium. Tests were carried out by Candidate of Technical Sciences N.P. Korovin, Engineers V.S. Pavlyk, P.K. Shklyarevskiy (through the TsNIPS) and I.P. Ryzhov, A.V. Pan'kov, Ya. Ya Svetova and N.M. Belyayeva of the Institute for Building Technique. The aim of these investigations was to determine the actual load-bearing capacities of the precast standard reinforced concrete units. Various tests are described in detail. Investigations showed that during the calculation and design of deformations of typical joints

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SOV/97-57-11-9-10

Practical Tests on Load-Carrying Constructions for the Games Arena  
at the Central Stadium imeni V.I. Lenin.

of these prestressed elements a considerable quantity of reinforcement and concrete could have been saved. This could have been effected if sufficient protection had been taken against the corrosion of the reinforcement and the deformations by testing full-scale units. There is one illustration.

1. Structures--Analysis
2. Reinforced concrete--Loading
3. Reinforced concrete--Testing equipment
4. Reinforced concrete  
--Test results

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BARSHTEYN, M. P.

SOV'50-59-2-23/25  
Anapol'skaya, L. Ye., Gaudin, L. S.  
Conference on Applied Climatology (Soveshchaniye po priklad-  
noy klimatologii)

Meteorologiya i gidrologiya, 1959, # 2, pp 69 - 70 (USSR)  
Between October 27 and 31, 1959 a Conference on Applied  
Climatology was held at the Glavnaya geofizicheskaya obser-  
vatoriya im. A. I. Voytkova (Main Jeophysical Observatory  
named A. I. Voytkov). The conference was concerned upon re-  
quest of the Glavnaya upravleniya gidrometeorologicheskoy  
sluzhby (Main Administration of Hydrometeorological Ser-  
vice) of the Ministry of Meteorology and Hydrological Ser-  
vice. The following institutions participated, among them 8 scientific  
institutes of the Hydrometeorological Service, 20  
institutes of various organizations, and 24 scientific research  
institutes of various authorities. In all, participation  
amounted to 254 persons. 22 papers were read. V. P. Pastuh  
spoke on the experience of the GCO in the field of aiding  
the work of C. A. Drosdor on space and time characteristics  
of the climate. V. F. Solovov on the use of the calculation  
technique, M. K. Kirubin on the work accomplished in the  
field of applied climatology of the Northeast of the USSR.  
Ye. S. Rubinskiy spoke on the method developed by him  
for the determination of temperatures for the purpose of  
calculating the five cold days on the basis of the data  
of the monthly average temperatures of the climate of the  
of the year. E. M. Goryunov spoke on the method of  
preparing maps of the territory of the USSR should  
be divided in zones (for the planning of living quarters).  
V. M. Il'inskiy gave a survey of the requirements made of  
climatic data in regard of the projecting of protective  
structures. L. Ye. Anapol'skaya and L. S. Gaudin reported  
on the method of statistical extrapolation developed by them  
for the determination of the frequency of high wind velocities.  
M. P. Barshiteyn proposed a method for the determination of  
the gust coefficient based on the spectrum theory of turbulent  
pulsations. V. A. Ostalov gave a survey of the require-  
ments made of climatic data in calculating wind and snow  
loads on buildings. G. I. Chirskadze reported on the ex-  
perience made in the consideration of the climate of health  
resorts in the Caucasus in planning and construction.  
L. A. Chubakov proposed a method for the analysis of the  
climate of health resorts based on a general climato-  
logical approach. G. A. P. Grigulye studied some climatic characteristics  
of the Latvian health resorts from the point of view of  
therapeutic purposes. V. A. Gerasimov reported on the influence of  
meteorological conditions on the Caucasian mineral springs.  
Ye. M. Vokhrakaya reported on climatological investiga-  
tions for the purpose of modernizing and streamlining living  
conditions (housing, clothing). V. Yu. Milevskiy proposed  
a map of actual temperatures for the European part of the  
USSR. B. V. Tarushinskiy spoke on the "Consideration of  
Some Characteristics of the Radiation Climate Which In-  
fluence the Operation of Solar Power Plants". E. M. Aki-  
movich spoke on "The Wind Energy Reserves in the Pricher-  
nomorskaya Steppa". V. S. Samoylenko submitted extensive  
climatic characteristics for sea altitudes and handbooks  
for the determination of the use of climatic data. G. I.  
A. I. Sorokin reported on the use of climatic data for in-  
direct estimates of the wind and wave conditions on seas  
and oceans. K. I. Ivanov gave a survey of the tasks of  
and requirements made of marine climatology for the  
security of sea navigation.

Card 1/4

3(7), 3(8)  
AUTHORS:  
TITLE:

PERIODICAL:  
ABSTRACT:

Card 2/4

BARSHTEYN, N. P.

BARSHTEYN, N. P. --"Some Problems in the Aging of Manganese Alloys." Moscow, 1956.  
(Dissertation for the Degree of Candidate in Technical Sciences.)

So.: Knizhnaya Litopis', No. 7, 1956.

*Учен. зап. кн.-б-ки Моск. ун-та. Сер. Физ.-матем. науки. 1956. № 7. С. 10-12.*  
*7, Moscow Inst. of Non-Ferrous Metals & Gold in M. D. Kalinin*

BARSHTEIN, N. P., Cand Tech Sci -- (disc) "Certain problems of aging  
of magnesium alloys undergoing deformation." Mos, 1970. 14 pp (Mos  
Inst of Ferrous Metallurgy and Gold in N. Y. Kalinin), 130 copies (ML,  
17-16, 167)

L 10429-65 BWT(1)/EWA(h) Feb 00/MLK

ACCESSION NR: AT4047627

S/0000/64/000/000/0239/0250

AUTHOR: Mordukhovich, N. G.; Barshteyn, N. P. B

TITLE: Investigation of new contact systems used in developing miniature high-frequency switches B

SOURCE: Vsesoyuznoye soveshchaniye po elektricheskim kontaktam i kontaktnym materialam. 3d, Moscow, 1962. Elektricheskiye kontakty\* (Electric contacts); trudy\* soveshchaniya. Moscow, Izd-vo Energiya, 1964, 239-250

TOPIC TAGS: HF switch, wafer switch, miniature switch

ABSTRACT: Conventional knife-type contacts used in h-f wafer switches are criticized for their high and unstable resistance and early wear. Four new designs of a miniature wafer switch, in which the fixed contacts are electrically closed by a roller, are discussed. Experimental models of the new switches were tested with currents of 50, 150, 250, 350 ma, contact pressures of 10, 25, 35, 45, 70, 90 gr. at 18, 80, 120, 150C, and under tropical humidity conditions. The contact resistance was measured by the voltmeter-ammeter method with

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ACCESSION NR: AT4047627

250 v, 50 and 300 ma d-c and with 12 v, 180 ma, at 28 Mc; the resistance was measured after 0, 1, 3, 5, 10, 15, 20, 25, 30 thousand operations. It was found that: (1) The contact resistance varies with the number of operations in the same fashion for all contact materials; (2) After 5,000 operations, the contact resistance of design I was twice as high as that of design II; (3) Minimum contact resistance and maximum stability were shown by designs I and II whose fixed contacts were made from L-62 brass electroplated by 10 microns of silver and 1--2 microns of rhodium, and whose roller was made from SrNM-2-20 bronze; (4) After 30,000 operations, design I showed greater wear than did design II. Based on the above investigation, a new miniature wafer switch was designed; it has greater stability and 1/4 to 1/5 contact resistance as compared to older designs. For new designs, see Enclosure 1. Orig. art. has: 11 figures and 1 table.

ASSOCIATION: none

SUBMITTED: 13Jul64

ENCL: 01

SUB CODE: EC

NO REF SOV: 002

OTHER: 001

Card 2/3

L 10029-65

ACCESSION NR: AT4047627

ENCLOSURE: 1

No	Appearance	Fired contact	Movable contact	Spring
1				
2				
3				
4				
5				

Card 3/3

S/191/61/000/002/C10/012

B124/B204

AUTHORS: Barshteyn, R. S., Kotlyarevskiy, G. A.

TITLE: Softeners for polyvinylchloride and its copolymers

PERIODICAL: Plasticheskiye massy, no. 2, 1961, 57-60

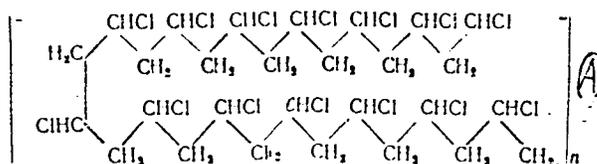
TEXT: The most important condition which must be fulfilled by a softener for polar polymers (e.g. PVC and its copolymers), is polarity. In softeners the following polar groups may be used: Ester groups (in diester- and poly-ester-softeners), chlorine containing groups (in chlorinated paraffins) and inorganic anions, which are bound to a benzene ring (as, e.g. in tricresyl-phosphate). The diester of dicarboxyl acids (phthalic adipic and sebacic acid) and of monohydric alcohols (2-ethylhexanol, alcohols of the fatty series C<sub>7</sub> - C<sub>9</sub> and butyl alcohol) are especially well suited; the latter are especially effective for obtaining frost-resistant plasticized material. The most wide-spread are monomeric softeners on the basis of phthalic anhydride ("phthalates") and of sebacic acid ("sebacinates"). From the

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S/191/61/002/010/012  
B124/B204

Softeners for polyvinylchloride...

practice of softening of PVC it is known that the greatest softening effect is brought about by the "phthalates" of alcohols of the fatty series, the phthalate of n-octyl alcohol whose molecule is 16.5A long having the most favorable properties. The formula of PVC may be represented by



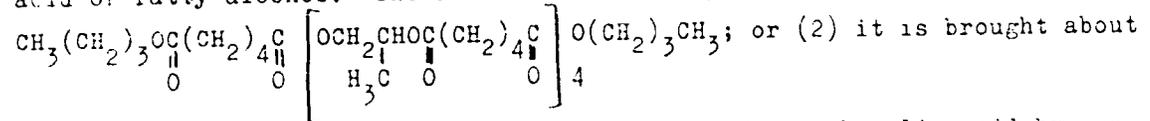
or by  $(\text{C}_{28}\text{H}_{42}\text{Cl}_{14})_n$ . The macromolecule of PVC, which consists of  $\text{C}_{28}\text{H}_{42}\text{Cl}_{14}$  -links, has a spiral-shaped structure. In the synthesis of softeners, compatible with PVC, it was assumed that 1) polyesters are the most effective softeners, if their macromolecules have a length which is equal to that of the PVC-link or is its multiple; 2) the molecular weight of polyester softeners must not be lower than 1000-1200, where the migration

Card 2/4

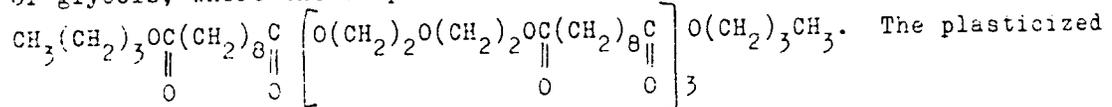
S/191/61/000/002/010/012  
B124/B204

Softeners for polyvinylchloride...

of the softener is low and 3) the polyester macromolecules must, have aliphatic radicals as end groups. The optimum quantity of the softener is calculated from the relation  $A = M \cdot 100 / 875 \cdot m$ , where A is the quantity of the softener per 100 parts by weight of PVC-resin, M is the molecular weight of the softener, and m the equivalence coefficient. The polyester softeners may be synthesized (1) either with equal functional groups at the ends (-OH or -COOH) with following esterification of the end groups with fatty acid or fatty alcohol. The formula of the compound obtained is then



by interchange of ester radicals of the esters of dicarboxylic acid by means of glycols, where the compounds obtained has the formula



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Softeners for polyvinylchloride...

S/191/61/000/002/010/012  
B124/B204

materials with polyester softeners were rolled at 150-155°C and pressed at 160-165°C. The PVC resin "РФ-специальная" ("PF-special), and, as stabilizer, the epoxy resin ЭД-5 (ED-5) were used. Further, the compatibility of polyester softeners with polyvinyl chloride, the compatibility degree, the mechanical, physical, and dielectric properties of the plasticate were investigated. The migration of the softener was gravimetrically investigated. On the basis of the selective difficult solubility in organic solvents, plasticates, which are resistant among other things also to Diesel fuel and Diesel oil, were developed. There are 5 figures and 26 references: 11 Soviet-bloc and 8 non-Soviet-bloc. ✓

Card 4/4

IGNATOVA, T.A.; BARSHEYN, R.S.

Adhesives for poly(vinyl chloride). Plast. massy no. 10:61-62  
'62. (MIRA 15:11)

(Vinyl compound polymers)  
(Adhesives)

BARSHTEYN, R. S.; MESHKOVA, N. D.

Methods for controlling re-esterification reactions. Plast.  
massy no.11:63-64 '62. (MIRA 16:1)

(Resins, Synthetic) (Esterification)

L 13018-63 EPF(c)/EPR/EWP(j)/EWT(m)/BDS AFFTC/ASD Pr-4/Pa-4/Pc-4 RM/WW  
ACCESSION NR: AP3000407 S/0191/63/000/005/0064/0065

AUTHOR: Barshcheyn, R. S.; Akopdzhanyan, E. A. 72

TITLE: Methods of enhancing the mold-resistance of polyvinylchloride plastic

SOURCE: Plasticheskiye massy\*, no 5, 1963, 64-65 B

TOPIC TAGS: mold-resistance, polyvinylchloride plastic, dimethyl esters, polyester plasticizers, methoxy groups, PF-special resin, plastics

ABSTRACT: Studies were carried out on the selection and synthesis of fungicides to be incorporated in the plasticizer for preventing mold fungus damage to polyvinylchloride pipes, coatings, packaging materials, etc. The following compounds, presumed nonutilizable as nutrients by molds were selected for testing: dimethyl esters, including dimethylphthalate (DMP), dimethyladipinate (DMA), and dimethylsebacate (DMS), and polyester plasticizers containing terminal methoxy (prepared in collaboration with V. G. Gorbunova). Samples of plastics obtained from polyvinylchloride resin ("PF-special" brand) using these plasticizers and calcium stearate as stabilizer were exposed to the action of spores of 7 species of mold fungus in distilled water at a relative humidity of 98-100% and a temperature of around 30C. DMP, DMA, and DMS plastics showed adequate long-term resistance (24 months' observation) to fungus attack, and the plastics prepared with the polyester plasticizers

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L 13018-63  
ACCESSION NR: AP3000407

gave excellent long-term protection. Under natural conditions (dry and damp environments), mold resistance was intact after 1 year in the Moscow region, and after 2 years in a subtropical region, though in the latter case mold resistance was slightly lower after 2 years' exposure in the open air. Other plasticizers, such as dibutylphthalate, dioctylphthalate, and dioctylsebacate were found to increase susceptibility to mold, as they are utilized for nutritional purposes. Orig. art. has: 1 table.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 10Jun63

ENCL: 00

SUB CODE: MA

NO REF SOV: 002

OTHER: 001

Card 2/2

BEGIDZHANOVA, A.P.; KREYNDLIN, L.M.; GORBUNOVA, V.G.; BARSHTEYN, R.S.

Substituting plastic materials for copper in making low pressure fuel pipes. Trakt. i sel'khoz mash. 33 no.2:43-44 F '63. (MIRA 16:3)

1. Gosudarstvennyy soyuznyy nauchno-issledovatel'skiy traktorny institut (for Begidzhanova, Kreyndlin). 2. Nauchno-issledovatel'skiy institut plastmas (for Gorbunova, Barshteyn).  
(Tractors ~~and~~ systems) (Pipe, Plastic)

L 38277-65 EMP(j)/EWT(m) Pa-h EM

ACCESSION NR: AP5008240

8/0286/65/000/005/0130/0130

AUTHORS: Kotlyarovskiy, G. A.; Barantyn, R. S.; Gorbunova, V. G.; Khrustaleva, L. M.

TITLE: Method for obtaining polyester plasticizers for polyvinylchloride compositions. Class 39, No. 149217.

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 5, 1965, 130

TOPIC TAGS: polyvinylchloride, polyester

ABSTRACT: This Author Certificate presents a method for obtaining polyester plasticizers for polyvinylchloride compositions. To preserve the high-frequency characteristics of the material during operation, dicarboxic acid esters and fatty alcohols are heated in the presence of acid catalysts with dihydric alcohol with distillation of monohydric alcohol from the reaction mixture.

ASSOCIATION: none

SUBMITTED: 25Dec58

ENCL: 00

SUB CODE: 00

NO REP SOW: 000

OTHER: 000

Card 1/1 nys

BARSHTEYN, R.S.

BARSHTEYN, R.S.; GAYDAROVSKIY, G.A.

Mechanism of the plastification of polyvinyl chloride. Plast. massy no.7:  
13-14 '65. (MIRA 18:7)

BRONKHA, A.V.; ROBERTSON, L.S.

X-ray diffraction and microscopic analysis of some modified  
polyesters. Plant. massy no. 12:12-45 '65 (MIRA 19:1)

L 06231-67 ENT(m)/ENP(j) IJP(c) DJ/RM  
ACC NR: AP6030659 SOURCE CODE: UR/0020/66/169/006/1370/1372

AUTHOR: Lur'ye, Ye. G.; Ratner, S. B.; Barshteyn, R. S.

ORG: State Scientific Research Institute of Plastics (Gosudarstvennyy nauchno-issledovatel'skiy institut plasticheskikh mass)

TITLE: The effect of the mechanism of plasticizing on the wear of polyvinyl chloride

SOURCE: AN SSSR. Doklady, v. 169, no. 6, 1966, 1370-1372

TOPIC TAGS: polyvinyl chloride, plasticizer, abrasion, chemical bonding

ABSTRACT: The purpose of this investigation was to determine the effect of the mechanism of plasticizing on the mechanical properties of polymers. Three systems were investigated: (a) polyvinyl chloride + 45% dioctylphthalate; (b) polyvinyl chloride + 25% dioctylphthalate; (c) polyvinyl chloride + 25% polyester plasticizer. The obtained polymers were subjected to abrasion on a disc grinder against a metal grid. The temperature during experiments varied within 20-100°C. Destruction of polymers during abrasion is described by the following equation:

$$I = I_0 \exp \left[ - \frac{U_0 - \lambda P_r}{RT} \right], \quad (1)$$

where  $I$  is the intensity of wear,  $P_r$  is the force per unit area of the specimen,  $U_0$  is

UDC: 541.66

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L 06231-67

ACC NR: AP6030659

the energy of activation for the breakage of bonds and  $I_0$  and  $\lambda$  are constants. The data obtained for the above three systems are shown in figure 1. It can be seen that

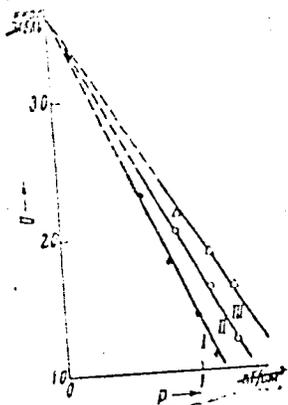


Fig. 1  
Effect of specific pressure  $p_r$  on the effective energy of  $U$ . I--polyvinyl chloride + 45% dioctylphthalate; II--polyvinyl chloride + 25% dioctyl-

$U$  is a linear function of  $p_r$ . The extrapolation of  $U-p_r$  curves for all polymers produces a single y-intercept, corresponding to  $U_0 = 36$  kcal/mol. This value is very close to the energy of activation for the breakage of the chemical bond during thermal destruction of polyvinyl chloride. Thus,  $U_0$  is determined strictly by the strength of the chemical bond and does not change with the change in the type of plasticizer, which affects only the magnitude and the distribution of intermolecular bonds in the polymer. The values of  $I$  are determined from the slope of  $U-p_r$  curves, and are different for each of

the three considered systems. Increases in the amount of plasticizer increase  $\lambda$ . From equation (1),  $I$  approaches  $I_0$  as  $1/T$  approaches 0. The obtained data show, however, that  $I=I_0$  at some finite temperature. At these temperatures, polymers cease to exist as solids. The authors thank S. I. Kovaleva and V. G. Gorbunova for their help in carrying out the experiments. Presented by Academician V. A. Kargin on 16 December 1965. Orig. art. has: 2 figures.

Card 2/3

L 06231-67

ACC NR: AP6030659

phthalate; III--polyvinyl chloride + 25% polyester plasticizer.

SUB CODE: 07,11/

SUBM DATE: 09Dec65/

ORIG REF: 011/

OTH REF: 001

Cord 3/3 *ill*

BARSHTEYN, V.A.

Semiautomatic machine for milling key grooves. Mashinostroitel'  
no. 7:16-17 '61. (MIRA 14:7)

(Milling machines)

BAESHOEN, V.A., 1911, "SHEVET", T.I., Term.; YELIN, V.I., 1911, Term.; POPIK, V.M.,  
1911.

Brassing the contact track of a pressure resistor of potentiometers.  
Priboostroenie no.6:19 01 1971. (MIRA 18:7)

ESTHONIA/General Problems of Pathology - Tumors. Human Tumors. U.

Abs Jour : Ref Zhur - Biol., No. 2, 1959, 3906

Author : Barshteyn, Yu.A., Fradkin, Ya.F.

Inst : -

Title : A Malignant Neovogenic Tumor with Multiple Metastases in the Central Nervous System

Orig Pub : Neukogude Eesti tervishoid, Zdravookhr. Sov. Estonii, Sb. 5, 1956, 61-65

Abstract : The patient's disease began with a severe headache, particularly on the left side. Involvement of the III, V and VI pairs of cranial nerves was found on the left and multiple verrucoid structures in the skin of the hairy part of the head. The data of the history, clinical picture and histological examination of the verrucoid structures led to the conclusion that the patient had a neovogenic malignant tumor of the hairy part of the head with metastases to the skull, dura mater, brain,

Card 1/2

BARSHTEYN, Yu.A., starshiy nauchnyy sotrudnik (Kiyev)

Comparative pathomorphology of the spleen of white mice following external gamma radiation with radioactive cobalt ( $Co^{60}$ ) and internal beta radiation with radioactive phosphorus ( $P^{32}$ ). Vrach. delo no.4:389-391 Ap '60. (MIRA 13:6)

1. Kiyevskiy nauchno-issledovatel'skiy institut epidemiologii i mikrobiologii (nauchnyy rukovoditel' - deystvitel'nyy chlen AMN SSSR, prof. L.V. Gromashevskiy).

(SPLEEN) (BETA RAYS--PHYSIOLOGICAL EFFECT)  
(GAMMA RAYS--PHYSIOLOGICAL EFFECT)

BARSHTEIN, Y. A.

Barshetyn, Y. A., Pochinok, P. YA., Baritskiy, A. M., Serikemikova, V. I.,  
Poncrarova, G. YE.

Continued studies of possibilities that healthy persons can be carriers of  
dysentery microbes.

Materialy nauchnykh konferentsii, Kiev, 1959. 28pp  
(Kievskiy Nauchno-Issledovatel'skiy Institut Epidemiologii i Mikrobiologii)

The first, III, is, followed by, 7. 7., followed by, 7. 7.

It follows that the first step is to determine the value of the first term of the series, which is 7. 7.

It follows that the first term of the series is 7. 7. (The value of the first term of the series is 7. 7.)



REPORT

... .., ... .., ... .., S. A., ... .., Y. . .

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[The text in this section is extremely faint and illegible. It appears to be a multi-paragraph document, possibly a report or a letter, but the specific content cannot be discerned.]

BARSHTEYN, Yu.A., kand.meditsinskikh nauk; SEREBRENNIKOVA, V.I., kand.  
meditsinskikh nauk; PONOMAREVA, G.Ye.

Carrying of dysentery bacilli by normal subjects; (based on an  
investigation of autopsy material). Sov. med. 24 no.4:93-97 Ap  
'60. (MIRA 13:8)

1. Iz Kiyevskogo instituta epidemiologii i mikrobiologii.  
(DYSENTERY)

BARSHTEYN, Yu. A.; KOROL', S. A. (Kiyev)

Morphological and serological characteristics of the processes of sensitization under experimental conditions. Arkh. pat. no.12:21-28 '61. (MIRA 15:7)

1. Iz Kiyevskogo nauchno-issledovatel'skogo instituta epidemiologii i mikrobiologii (dir. -- kandidat meditsinskikh nauk S. N. Terekhov, nauchnyy rukovoditel' - deystvitel'nyy chlen AMN SSSR prof. L. V. Gromashevskiy)

(ALLERGY) (RADIATION SICKNESS)

BARSHTEYN, Yu.A., starshiy nauchnyy sotrudnik; GLUZMAN, D.F [Gluzman, D.F.];  
BEBESHKO, V.G. [Bebeshko, V.H.]

Intrapericardial tumor in a 5-week-old child. Ped., akush. i gin.  
23 no.5:32-33 '61. (MIRA ,4:12)

1. Klinika fakul'tetskoy pediatrii (zaveduyushchiy - prof. V.G.  
Balaban [Balaban, V.H.] Kiyevskogo ordena Trudovogo Krasnogo Znameni  
meditsinskogo instituta im. Bogomol'tsa (rektor - dotsent V.D.Bratus').  
(PERICARDIUM--TUMORS)

KONGUNOV, I.N.; BARSHTEYN, Yu.A.; YAGUD, S.L.

Experimental searches for a model of dysenterial infection. Report No.3:  
Further study of the summation of infectious irritations as a patho-  
genic mechanism in a model of experimental dysentery. Zhur. mikrobiol.  
epid. i immun. 32 no.6:33-38 Je '61. (MIRA 15:5)

1. Iz Kiyevskogo instituta epidemiologii i mikrobiologii.  
(DYSENTERY)

BARSHTSIN, Yu.A.; MORGUNOV, I.N.; YAGUD, S.L.

Morphological features of experimental dysenterial infection  
in cats in relation to the dose and number of microbial cells  
administered. *Biul. eksp. biol. i med.* 52 no.9:112-116 S '61.  
(MIRA 15:6)

1. Iz Kiyevskogo instituta epidemiologii i mikrobiologii.  
Predstavlena deystvitel'nym chlenom AMN SSSR L.V. Gromashovskim.  
(DYSENTERY)

MAZURENKO, Nikolay Petrovich; BARSHEV, Yu.A., red.; ZAPOL'SKAYA,  
L.A., tekhn. red.

[Role of viruses in the etiology of leukemia] Rol' virusov v  
etiologii leikozov. Kiev, Gosmedizdat USSR, 1962. 216 p.  
(MIRA 15:9)

(LEUKEMIA) (VIRUS RESEARCH)

MORGUNOV, I.N.; YAGUD, S.L.; BARSHTEYN, Yu.A.

Experimental reproduction of typhoid fever in guinea pigs  
and rabbits. Zhur. mikrobiol., epid. i immun. 33 no.1:40-45  
Ja '62. (MIRA: 15:3)

1. Iz Kiyevskogo instituta epidemiologii i mikrobiologii.  
(TYPHOID FEVER)

VERSHININA, Klavdiya Il'inichna, kand. med. nauk; BARSHEYN,  
Yu.A., red.; ZAPOL'SKAYA, L.A., tekhn. red.

[Botkin's disease in children's collectives and measures  
for its prevention] Bolezn' Botkina v detskikh kolektivakh  
i mery ee profilaktiki. Kiev, Gosmedizdat USSR, 1963. 142 p.  
(HEPATITIS, INFECTIOUS) (MIRA 16:7)  
(CHILDREN—DISEASES)

MORJUNOV, I.N.; YAGUD, S.L.; BARSHEYN, Ya.A.; NOVIKOVA, L.B.

Experimental search for a dysentery infection model. Report No.5:  
Use of the stimulation summation principle for reproducing dysen-  
tery in guinea pigs. Zhur. mikrobiol., epid. i immun. 40 no.4:  
12-78 Ap '63. (MIRA 17:5)

1. Iz Kiyevskogo instituta epidemiologii i mikrobiologii.